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CLAIMS

What Is Claimed Is:

1. A method for forming a micro tip for a micro probe utilized in testing semiconductor integrated circuit devices, said method comprising the steps of:

depositing a thick oxide layer upon a substrate; and defining a micro tip for a microprobe from said thick oxide layer upon said substrate through a plurality of subsequent semiconductor manufacturing operations performed upon said substrate and layers thereof, wherein a plurality of said micro tips are mass produceable and can be efficiently utilized in association with increasingly smaller sizes of semiconductor integrated circuit devices.

- 2. The method of claim 1 further comprising the step of: adapting said micro tip of said microprobe for use with a micromachine.
- 3. The method of claim 1 further comprising the step of:

 connecting said micro tip of said microprobe to a
 micromachine.

- 4. The method of claim 1 further comprising the step of:

 defining said micro tip of said microprobe utilizing a
 plurality of micromachine manufacturing operations.
- 5. The method of claim 1 further comprising the step of:

 performing a first lithography operation upon said substrate
 and layers thereof following a deposition of said thick oxide layer
 upon said substrate.
- 6. The method of claim 5 further comprising the step of:

 performing a first metal sputter operation upon said
 substrate, following said first lithography operation performed
 upon said substrate and said layers thereof.
- 7. The method of claim 6 further comprising the step of:

 performing a chemical mechanical polishing operation upon said
 substrate and said layers thereof following said first metal
 sputter operation performed upon said substrate.
- 8. The method of claim 7 further comprising the step of:

 performing a second metal sputter operation upon said
 substrate, following said chemical mechanical polishing operation
 performed upon said substrate and said layers thereof.

9. The method of claim 8 further comprising the step of:

performing a second lithographic operation upon said substrate and said layers thereof following said second metal sputter operation performed upon said substrate, in order to define a shape of said micro tip.

10. The method of claim 1 further comprising the step of:

forming said micro tip for said micro probe on a substrate, wherein said micro tip is formed between a conductive metal layer and said substrate.

- 11. The method of claim 10 wherein said conductive metal layer comprises an aluminum layer.
- 12. The method of claim 1 wherein said substrate comprise a silicon substrate.
- 13. An apparatus for a micro probe utilized in testing semiconductor integrated circuit devices, said apparatus comprising:

a micro tip for said micro probe, wherein said micro probe is formed from a thick oxide layer deposited upon a substrate; and

wherein said micro tip is defined from said thick oxide layer upon said substrate through a plurality of subsequent semiconductor

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manufacturing operations performed upon said substrate and layers thereof, such that a plurality of said tips are mass produceable and can be efficiently utilized in association with increasingly smaller sizes of semiconductor integrated circuit devices.

- 14. The apparatus of claim 13 wherein said micro tip of said microprobe is adapted for use with a micromachine.
- 15. The apparatus of claim 13 wherein said micro tip of said microprobe is connected to a micromachine.
- 16. The apparatus of claim 13 wherein said micro tip of said microprobe is definable utilizing a plurality of micromachine manufacturing operations.
- 17. The apparatus of claim 13 wherein said substrate and said layers thereof are subject to a first lithography operation following a deposition of said thick oxide layer upon said substrate.
- 18. The apparatus of claim 17 wherein said substrate and said layers thereof are subject to a first metal sputter operation, following a performance of said first lithography operation upon said substrate and said layers thereof.

- 19. The apparatus of claim 18 wherein said substrate and said layers thereof are subject to a chemical mechanical polishing following a performance of said first metal sputter operation upon said substrate and said layers thereof.
- 20. The apparatus of claim 19 wherein said substrate and said layers thereof are subject to a second metal sputter operation following a performance of said chemical mechanical polishing operation upon said substrate and said layers thereof.
- 21. The apparatus of claim 20 wherein said substrate and said layers thereof are subject to a second lithographic following a performance of said second metal sputter operation upon said substrate and said layers thereof.
- 22. The apparatus of claim 13 wherein said micro tip is formed between a conductive metal layer and said substrate.
- 23. The apparatus of claim 22 wherein said conductive metal layer comprises an aluminum layer.
- 24. The apparatus of claim 13 wherein said substrate comprises a silicon substrate.